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16 June 1961

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NRO REVIEW COMPLETED

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MARKETT: Trip Report -

1. PURPOS: Travel porformed on 3 - 13 June 1961 to conitor leading of vehicle 1107 and 1108. Additional Item was a Technical Directive excetting with the SETD group and the CUB.

2. [14.1]

LOADING: Operation at VAFB was normal for both the Argon wehicle 1108 and the Corona vehicle 1107. Dur-off was accomplished for the instruments at base and the D.D. Form 250 returned to contracts. Since a delay in loading on 1107 necessitated a day by day slip, I remained on the West Coast an extra A days. This brings up a good points I feel that the loading operation on "t" and "A" is now routine and recommend that Hq. permit Capt. Johnson from AFSCO to represent the Government during this operation. Col. Rusch also plans to be present on the "A" loadings. (On the first one or two C'" items, I feel I should personally attend the leading operation.) In the event of unusual difficulties or a situation requiring a decision, both myself and ______ are available by telephone. Furthermore, I could be there in about 12 hours in the event of sees energency. Loading on 2 - 2 gives a one day pad before the instrument moves to the launch stand anyway. In this manner a considerable savings of travel cost could be effected and more time aveilable for work at Mq. For buy-off, could accomplish this at 1850 or he could delegate this authority to Capt. Johnson at VAFB.

S. DUMBUCAL DIRECTIVE SECTION: Ituates of the first ID meeting on the Mural progress are attached. Procedures for operation of the Sall, I.D. A. on the Auxiliary Frame Carera, and the Design Control Specification for the "Dual Terrallel Output Clock Generation" are on file in DFO.

MEDAL CLACK: A proposal has been received by SETD from for eight "" clocks. This includes EII for line of values control plus one black telephone. The FCIC schehale shows the following deliveries:

(1) EVERTING KLICHT UNIT, 16 Cet. 1961. This may we hight for delivery.

(2) QUALIFICATION UNIT, 30 Oct. 1961. Since the "A" slock is being repackaged to eliminate the shutter timer and includes the design of a dual parallel output clock concrator in place of the "A" generator, it is highly desizable to qualify the entire unit. We are actually repubnging the entire unit in shape and the installation point is

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NRO : 25X1 of course different. The SETD does not believe significant, savings could be made by qualifying only the new sub-assemblies. The safest proceedure is, obviously, to qualify the entire "" clock as a sub-system.

(3) STIME AND A

- (a) 13 Nov. 61 (b) 27 Hov. 61
- (c) 11 Dec. 61
- (d) 26 Dec. 61
- 8 Jan. 62
- 22 Jan. 62
- (4) SPARE FLIGHT UNIT: One of the flight units in the above list will be allocated as a spare. This will insure availability of a unit for every flight. One unit is the least amount of spares that could be procurred and does not imply that the confidence level on reliability is not high;, but rather is insurance against damage in Mandling, shipping and test.

4. SATO REPRESENTATIVES will coordinate SETO matters as a representative in the ITER plant in Boston.

- a. <u>SETT MESTINGS:</u> It was decided to hold the SETO meetings (monthly) alternately in Poston and Palo Alto.
- f. CLEAN ROOM INSPECTION AT VAFE: The close rooms in the "L" Building are to be placed under dual supervision of LESD top management and USAF local personnel under Col. Heisler. The Lica representative will be I feel that with this type of people making daily, unamounced, inspections the quality of cleanliness will greatly isprove. Attached is a draft of a proposed inspection list to be furnished these people and also posted in the "L" additing as a check list. A copy has been given to for Comment.

SPARE TRACK CENTER: arranged to take me through the STC one evening after hours when the area was empty. I had been unable to take this tour previously due to the association problem with many SSD personnel who know me. This did remind me of a point, however, I feel that it would be very advantagrous to obtain a slot, for this agency [

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to permit a scheduled attendance of selected agency personnel to the Ballistic Missile and Space Systems Orientation course, at SSD in Inglewood. I don't believe the course, which was run by the Air University, has changed significantly since I left 330. It previously ren for one week of intensive lectures and tours of several contractor facilities. Out of toen students participated in a TDY status. I feel that this basic inductrination course would be especially benifical to M'IC and operations personnel.

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25X1A	h. ITEX PLANS: I was able to spend half of a content their new West Coast the most interesting portion of our conversation	reculity.	25X1A
25X1D	a proposal "in work" between ITEM and	for a the C pro-	25X1A
25X1A	gram. The contribution was primarily control rocket or jet area to enable orbit change	in the small	
	to permit parallel flight line coverage with a laugth camera of technical objective targets.	long focal. The system	
	would probably be a solid propellant type primare with the associate reduction in G.S.E. costs. I also permit launches from other than VAFB and spares recovery. I see a definate attempt to breakly in future proposals. They have presently in future proposals.	This could pecific land ak away from	
25X1A	hold off from running to the Pentagon posal, but feel that to secure some time for our	with a pro- ssideration of	
25X1A	this system as a "black" operation, a small stufor a hundred thousand or so would pacify a detailed investigation. I certainly feel the ization should be working in this direction for Eventually we should achieve a "quick reaction of detailed intelligence requirements.	and peredt t sees organ- the future.	
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		(154)	
	Distribution: 1 - Chief, DB 1 - Contracts 1 - Security 1 - SPB		
25 V 1A	1 - PIC 1 - DPD/DB (Chrono)		

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SETT), let TECHNICAL DIRECTIVE MESTING June 5, 1961

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- 1. SETD personnel introduced. Role of Representative explained.
- 2. Functions and Operating Procedures were discussed. SETD Operating Procedures were distributed. These are open to comment and recommendation.
- 3. LESD status report showed all items to be on 90% or schedule. One special problem requiring attention is checkeut and integration of vehicle clock into the first flight system. Span between delivery and completion of integration is shorter than normal and extra effort will be required. Also, camera subsystem must be delivered by September 18 to maintain 17 December ship-to-base date. An item requiring immediate action is resolution of whether fram camera is included in shetem. This is affecting LMSD effort on barrel section, fairing, and recovery system modifications.
- 4. IMEK reported that:
 - a) Design for dual cassette 100% released. Parts for first four 95% complete. First article assembled by July 1, 1961.
 - b) Hain panoramic cameras are in good position dependent upon completion of Triple Prime Qualification Program. Layout of position in barrel sections has been received and details of mods released. Changes beyond June 8 in main plate layout could cause schedule problems. # 51 and #52 considered best bet for M Program schedule.
 - c) Frame Camera no difficulties on schedule at this time.
 - d) Simulator design is being gated by availability of optical glass. Design now underway. If rare earth glasses are required procurement time may determine delivery of simulators.
 - e) Requirements for sie amic block for simulator discussed. Decision made not to build seismic block at L/N simulator. Base line resolution measured at ITEE and West Coast measurement is for check only.
- 5. Following TDS issued: TD No. 1, Vehicle Clock, issued and implemented.
 - TO No. 2, BEC Wiring Change, issued informally and incorporated in GE work statement.
 - TO No. 3, Change in Plug Type for Cassette, awaiting ITEK coordination.
 - TO No. 4, Auxiliary Frame Camera, submitted for discussion and approved by AFCCB. ITEK and LMED will stop any further work to incorporate frame camera.

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- 6. Mechanical Interface Review showed no major problems. Nost significant problem is interference of timing belt pulley with finger mounting ring and interference of cycle counter. Cycle counter will be moved. Timing belt pulley, however, should stay at present location and interference will have to be relieved in finger design or by other means. Mock-up of dual cassette and back cover showed no major problems.
- 7. Electrical Interface Review. Rajor problem exists at interface of vehicle clock and camera. ITEK considers clock interface drawing furnished by LEED to be inadequate. Initial action to resolve this problem will be investigation by LEED field representative to determine specific problems of interface. This will be followed up by visit by LEED Engineering personnel if required. Due date for resolution is 16 June.
- 3. Weight Reduction. Means of reducing system weight were discussed. NETO is to prepare Technical Directive requiring Associate Contractors to study and recommend possible weight savings.
- 9. Mext Technical Directive meeting is schoduled for June 29, 1961 in Boston.

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STEARST: SURAL STOTCK SPECIFICATION

- 1. A requirement exists for a general system specification for hursl Subgrotem. This specification should contain the following major subhendings: -
 - T. MUTL
 - a) Comeral Description of System
 - b) Aurpoue of System
 - II. OPERATIONAL PARAMETERS
 - a) Orbit Parameters
 - b) Coverage Capebilities
 - c) launch lindte
 - 1) Him of Year
 - 2) The of Day
 - d) Expected Performance and Compatibility with NO 132, NO 130, and 50 102 type Milm.
 - e) Hecovery Envelopes for 1, 2, 3, 4, or 5 Day Operations.
 - f) Capabilities for Covering Specific Areas of Interest

 - 3) Vehicle Performance
 b) Power Requirements for 1, 2, 3, 4, or 5 Day Operations.

III. MONR

- a) Specification of Environmental Constition
 - 1) Checkout
 - 2) Shipment
 - 3) Storego
 - 4) Growtt
-)) Requirements for Holse Suppression
- c) System Weight Considerations
- d) Masting of all Applicable Design Control Specifications.

IV. GUALITY CONTROL HILLOOPHY

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- a) General philosophy
- b) Reliability testing of parts, companion, sub-assemblies, rejor assemblies, and the system.
- c) level of basting meeded to establish reliability.
- 2. It is requested that your department provide SETD support in the preparation of the specifications.
- 3. In order to determine specific assignments and responsibilities and agreement on specification outline and content, a conference will be held at 1130 PH on June 7. Target data for first draft of the specification is 16 June 1961.
- 4. A portion of the specification material was previously prepared in the Program Plan and Proposal documents which established the K Program.

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Section 2		

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DRATT

HESPECTION LIST VAPE "L" BLOG.

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To establish an inspection list covering housekeeping and maintenance and calibration of GGE at VAFB "I" Bldg.

(MINITAL :

Improvements required to assist in better housekeeping at the "L" Bldg.

(a) Add filters or screens to outside of "L" Bldg. over intake on clean room airconditioner.

CHECK LIST:

- (a) Loose equipment shall be stored in the room provided when not in use. Shelves and hangers are provided for storage.
- (b) Clean room floors shall be scrubbed once a week. DO NOT WAX. Additional scrubbing one day before a loading-mission will be accomplished when required.
- (c) Smocks and/or coveralls, "will be worn in the clean rooms when instruments are being worked. Special shoes will be worn in the "A" clean room. These smocks and shees should NOT be worn in other "I" Bldg. areas. Remove them in room provided at entrance to clean rooms. In addition, face masks, hats and gloves will be used for all instrument loading operations.
- (d) Neep large doors to clean rooms closed except for the movement of equipment. Personnel must use access doors provided. Keep these access doors closed except when personnel are in process of entering or leaving.
 - (d) Vacuum clean top of test equipment bay in clean rooms every week.
- (f) Gover instrument and/or instrument/fairing combination with a clear plantic cover at all times when no work is being accomplished.
- (g) Satablish and maintain "No Smoking" in both clean rooms. Inspect trouser cuffs before entering clean rooms.
- (h) Satablish and maintain a "No Smoking" area for the recover vehicle when it is open. Cover the vehicle with a clear plastic cover when it is open and not being worked.
- (i) Cover the vehicle "programmer" with a clear plastic cover when it is open and access is not required.
- (5) Clean processor impediately after use. Do not use the processor room for a storage area.

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- (k) Satablish a maintenance system on dynamic and static balancers. attach a tag of checkoff list to each balancer to log date that maintenance was performed.
- (1) Vacuum clean top and internal portions of test conscies used in cleam rooms every week.
- (n) Glean work benches and floor around benches at the end of each shift.
 - (n) Calibrate test equipment regularly, including consoles.
- (a) Conduct regular inspection of all handling equipment and dollies for proper maintenance and cleanliness.
 - (p) Conduct safety inspection of pyro room before each leading operation.